

# Southern Ute Indian Tribe Water Quality Program

## Gold King Mine Animas River Release Monitoring

The Southern Ute Water Quality Program is responding to the Gold King Mine release to the Animas River that occurred on August 5, 2015. The plume of sediment and metals from the mine crossed the Reservation boundary in the early morning hours of August 7, 2015. Before the plume reached the border, the Water Quality Program collected several samples to establish baseline conditions immediately prior to the plume. The Animas River has been monitored by the WQP for over a decade.

This document captures the immediate response of the WQP to the event. Please direct all questions to Curtis Hartenstine, Southern Ute Indian Tribe Water Quality Program Manager  
 charten@southernute-nsn.gov, 970-563-4705

<b>Pre Release Monitoring: 8/6/15:</b>				
Site	WQ	Sonde	Macro	Photo
19-3	Yes	Yes	Yes	Yes
AR 16-0	No	Yes	No	Yes
Basin Creek	No	No	Yes	Yes
NAR 6	Yes	Yes	No	Yes

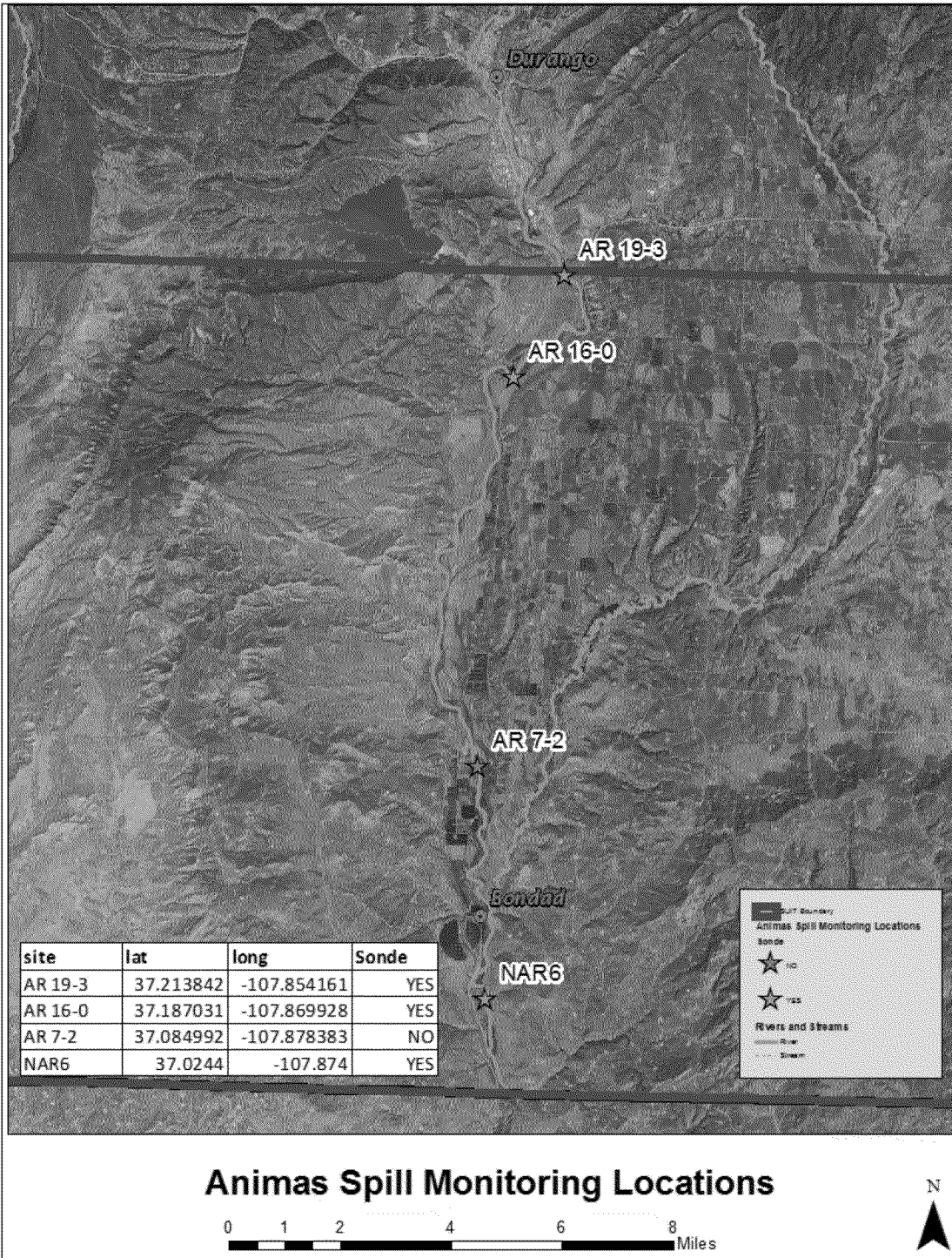
<b>Post Release Monitoring 8/7/15 and beyond</b>				
Site	WQ	Sonde	Macro	Photo
19-3	Yes	Yes	Yes	Yes
AR 16-0	Yes	Yes	Yes	Yes
Basin Creek	no	No	Yes	Yes
AR7-2	Yes	No	Yes	Yes
NAR 6	Yes	Yes	Yes	Yes
Frequency of Collection	daily	15 minute increment	TBD- collection to begin following plume	daily

<b>Analyte List</b>					
PARAMETER	Fraction	UNITS	METHOD	MDL	PQL
Aluminum	Trec, D	mg/l	M200.7 ICP	0.03	0.2
Calcium	Trec, D	mg/l	M200.7 ICP	0.2	1
Iron	Trec, D	mg/l	M200.7 ICP	0.02	0.05
Magnesium	Trec, D	mg/l	M200.7 ICP	0.2	1
Potassium	Trec, D	mg/l	M200.7 ICP		
Sodium	Trec, D	mg/l	M200.7 ICP		

Silver	Trec, D	mg/l	M200.7 ICP	0.01	0.03
Arsenic	Trec, D	mg/l	M200.8 ICP-MS	0.0005	0.002
Cadmium	Trec, D	mg/l	M200.8 ICP-MS	0.0001	0.0005
Copper	Trec, D	mg/l	M200.8 ICP-MS	0.01	0.05
Selenium	T and D	mg/l	M200.8 ICP-MS	0.0001	0.0003
Zinc	Trec, D	mg/l	M200.8 ICP-MS	0.01	0.05
Barium	Trec, D	mg/l	M200.8 ICP-MS		
Beryllium	Trec, D	mg/l	M200.8 ICP-MS		
Cobalt	Trec, D	mg/l	M200.8 ICP-MS		
Chromium	Trec, D	mg/l	M200.8 ICP-MS		
Manganese	Trec, D	mg/l	M200.8 ICP-MS		
Molybdenum	Trec, D	mg/l	M200.8 ICP-MS		
Nickel	Trec, D	mg/l	M200.8 ICP-MS		
Lead	Trec, D	mg/l	M200.8 ICP-MS		
Antimony	Trec, D	mg/l	M200.8 ICP-MS		
Selenium	Trec, D	mg/l	M200.8 ICP-MS		
Thallium	Trec, D	mg/l	M200.8 ICP-MS		
Vanadium	Trec, D	mg/l	M200.8 ICP-MS		
Bicarbonate as CaCO <sub>3</sub>		mg/l	SM2320B-Titration	2	20
Carbonate as CaCO <sub>3</sub>		mg/l	SM2320B-Titration	2	20
Hardness as CaCO <sub>3</sub>		mg/l	SM2320B-Calculation	1	7
Residue, Non-Filterable (TSS) @ 150°C		mg/l	SM2540D	5	20

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Created 8/7/15